

Ethylene Diaminetetraacetic Acid as a Masking Agent in Analytical Chemistry, by H. Flaschka, 14 pp.

GRUBMAN, per, Angew Chem, Vol LXIX, 1957, pp 767-771.

ABC/MRL-T/W-98

Sci - Chem

May 59

87,970

<p>Stroh, K., Seydel, R., and Hahn, W. ALKYLATION OF PHENOLS WITH OLEFINS. Pt. 10 of New Methods of Preparative Organic Chemistry II. [1961] 23p. 49 refs. Order from SLA \$2.60</p> <p>Trans. of Angewandte Chemie (West Germany) 1957, v. 69, no. 22, p. 699-706.</p> <p>DESCRIPTORS: *Ethylene, *Phenols, *Alkyl radicals, Synthesis, Chemical reactions.</p> <p>(Chemistry--Organic, TT, v. 6, no. 1)</p>	<p>60-16808</p> <p>I. Stroh, K. II. Seydel, R. III. Hahn, W. IV. Title: New ...</p> <p>161563</p> <p>Office of Technical Services</p>
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Rathje, W.  
PREPARATION OF HYDROXYFLUORAPATITE  
(SCHLEEDITE) tr. by Bertha P. Klanova. 10 Jan 58,  
1p. 1 ref. TVA 3682.  
Order from OTS or SLA \$1.10 60-19174

Trans. of Angew[andte] Chem[ie] (West Germany)  
1957, v. 69, p. 717.

DESCRIPTORS: \*Apatite, \*Fluorides, \*Hydroxides,  
Synthesis.

(Chemistry--Inorganic, TT, v. 8, no. 2)

60-19174

I. Rathje, W.  
II. TVA-3682  
III. Tennessee Valley  
Authority, Wilson Dam,  
Ala.

5-16-62  
Office of Technical Services

Synthesis of Dicarboxylic and Tricarboxylic Acids  
of Aromatic Ring Systems by Displacement of  
Carboxyl Groups, by B. Raacks, 16 pp.

GERMAN, per, Angewandte Chemie, Vol LXX, No 1,  
1958, pp 1-5.

SLR 60-14261

Sci  
Jan 62  
Vol III, No 10

179.920

Kortuem, G.  
THERMOCHROMISM, PIEZOCHROMISM, PHOTO-  
CHROMISM, AND PHOTOMAGNETISM. [1961] 23p.  
(14 figs. omitted) 30 refs.  
Order from SLA \$2.60

62-10595

Trans. of Ange[wandte] Chem[ie] (West Germany) 1958,  
v. 70 [no. 1] p. 14-[20].

DESCRIPTORS: \*Anthrones, \*Sterochemistry, Mole-  
cules, \*Molecular structure, Chemical equilibrium,  
Thermodynamics, Molecular isomerism, Colors,  
Magnetism.

The above 4 phenomena, some of which have been known  
earlier, and some of which are of recent discovery,  
may be observed and clearly interpreted on the same  
molecule, such as dehydrodianthrone and its deriva-  
(Chemistry--Physical, TT, v. 8, no. 6) (over)

62-10595

1. Title: Thermochromism
2. Title: Piezochromism
3. Title: Photochromism
4. Title: Photomagnetism
1. Kortuem, G.

Office of Technical Services

Complex Formation and Reactivity in Organometallic  
Chemistry, by G. Wittig, 27pp.

GERMAN, per, Angewandte Chemie, Vol <sup>LXX,</sup> 70, No. 3, 1958  
pp 65-71

ATS-51-GJ  
SLA 63-20300

Sci -  
Sep 63

63-10572

Martin, H.  
FORMATION REACTIONS OF NITROXYCHLORIDE,  
28 July 61, 6p. 7 refs.  
Order from SLA \$1.10

63-10572

Trans. of Angewandte Chemie (West Germany) 1958,  
v. 70, no. 4, p. 97-98.

DESCRIPTORS: \*Chemical reactions, \*Nitrogen  
compounds, \*Oxychlorides, Condensation reactions,  
Distillation, Dynamics, Equations, \*Chlorides.

I. Martin, H.

(Chemistry--Physical, TT, v. 9, no. 10)

Office of Technical Services

61-10446

Winkler, H.  
EXTENT OF PROTECTION OF CHEMICAL PAT-  
ENTS FROM THE VIEWPOINT OF THE INFRINGE-  
MENT JUDGE. [1958] 34p. 45 refs.  
Order from SLA m\$3.00, ph\$6.30 61-10446

Trans. of Angewandte Chemie (West Germany) 1958,  
v. 70, no. 5, p. 117-123.

In Germany, patent protection extends beyond that  
which is directly stated in the patent claims. This  
broadened protection of the inventor, however, leads  
to a certain ambiguity regarding rights. The concepts,  
"subject matter of the invention", "state of the art",  
"poorer performance", and the "general idea of the  
invention" are therefore defined more accurately here,  
in juxtaposition to each other. By means of examples  
it is shown how the interests of the inventor and the  
patent plaintiff are to be bounded and according to what  
principles the extent of patent protection is set up by  
the courts in the infringement action. (Author) (Pre-  
(Social Sciences, TT, v. 5, no. 7) (over)

1. Patents--Germany  
I. Winkler, H.

148,511

Office of Technical Services



<p>Dersin, H. INTERPRETATION OF THE EXTENT OF PROTECTION OF CHEMICAL PATENTS AND DETERMINATION IN ADVANCE OF THE EXTENT OF PROTECTION WITHIN THE COMPASS OF THE GRANTING PROCEDURE. [1958] 26p. 21 refs. Order from: SLA mi\$2.70, ph\$4.80</p>	<p>61-10447 1. Patents--Germany 1. Dersin, H.</p>
<p>Trans. of Angewandte Chemie (West Germany) 1958, v. 70, no. 5, p. 123-128.</p>	<p>148,512</p>
<p>An interpretation is given of the extent to which the patent office examination procedure would be able to contribute to better safeguarding of rights in the examination of patents, especially in the chemical field. An ideal arrangement suggested would be, among other things, the creation of a patent court of justice. However, even today, by cooperation between the courts and the patent office, and by due consideration of the practice of interpretation of the courts, improvements could be attained by the patent office. (Social Sciences, TT, v. 5, no. 7) (over)</p>	<p>Office of Technical Services</p>

61-10445

Rheinfelder, L.  
THE EXTENT OF PROTECTION OF CHEMICAL  
PATENTS FROM THE VIEWPOINT OF THE IN-  
VENTOR. [1958] 26p. 25 refs.  
Order from SLA ml\$2.70, ph\$4.80 61-10445

Trans. of Angewandte Chemie (West Germany) 1958,  
v. 70, no. 5, p. 128-133.

A discussion is given on the extent of protection a patent must have to be in the interest of the inventor or how far it may be in the interest of the public. The principles according to which the German infringement courts today determine the extent of protection of a patent correspond to the interests of chemical industry. The extent of protection should first be determined in the infringement process. The examination of a general inventive idea, made valid in an infringement process, relative to patentability, should be left to the patent office. (Author) (An address given October 9, 1957 at the Berlin General Meeting of the (Social Sciences, TT, v. 5, no. 7) (over)

1. Patents--Germany  
1. Rheinfelder, L.

148,510

Office of Technical Services

✓  
Catalytic Conversion of Olefines With the Aid of  
Platinum-Metal Compounds, (The Consortium Process  
for the Preparation of Acetaldehyde), by Dr J.  
Schmidt, 23 pp.

GERMAN, per, Angewandte Chemie, ~~24~~ received on  
14 Jul 1958.

CIA/PDD XX-643  
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chemistry  
Sep 59

USIB INTERNAL USE ONLY"

95, 442

Kinetic Isotope Effects and Their Application in  
the Investigation of ~~REXX~~ AZO-Couplings, by H.  
Zollinger, 35 pp.

GERMAN, Angew Chem, Vol LXX, 1958, pp 204-210.

ANC-tr-3736

Sci - Chem  
Aug 59

94,727

Heterocyclic Azo Dyes Produced by Oxidative  
Coupling, by S. Hunig, et al.  
GERMAN, per, Angewandte Chemie, Vol LXX,  
pp 215-222.  
Patent Office

Sci - Phys  
Apr 65

278,273

The Peroxides of Ether, the Carbonyl Compounds and  
the Ozonides, by A. Rieche, *48 pp*

GERMAN, per, Angewandte Chemie, Vol LXX, No 9,  
1958, pp 251-266.

*9074604*

NRCC TD-832

Sci - Chemistry  
Jan 61

*136,432*

Quantitative Determination of Organic Peroxy  
Compounds in Mixtures, by L. Horner, E. Jurgens,  
7 pp.

GERMAN, per, Angewandte Chemie, Vol LXX,  
No 9, 1958, pp 266-268.

Sci  
Mar 62  
Vol VII, No 3

ATB-970530  
SLA 61-20648  
188, 185

Gerischer, H.  
PASSIVITY OF METALS. [1962] 28p.  
Order from ATS \$29.95

ATS-77P60G

Trans. of Angew[andte] Chem[ie] (West Germany) 1958,  
v. 70, no. 10, p. 285-298.

DESCRIPTORS: \*Metals, \*Passivity.

(Chemistry--Physical, TT, v. 8, no. 4)

62-17687

I. Gerischer, H.  
II. ATS-77P60G  
III. Associated Technical  
Services, Inc.,  
East Orange, N. J.

ATS/984-GJ

Office of Technical Services



Hayek, E. M., Hohenlohe-Profanter, B. Marcic,  
and Beetz, E.  
GENERAL METHOD OF PREPARING CRYSTALLINE  
METAL SALTS. [1963] 8p 2refs  
Order from SLA \$1.10 63-18866

Trans. of Angewandte Chemie (West Germany) 1958,  
v. 70, p. 307-309.

DESCRIPTORS: \*Salts, \*Metals, Complex compounds,  
Acids, Chemical precipitation, Chemical reactions,  
pH, Crystallization.

Microscopically crystalline homogeneous heavy metal  
salts are precipitated in a homogeneous system from  
an alkaline complex salt solution by lowering the  
pH-value. The method is used primarily for the  
preparation of neutral and basic difficultly soluble salts,  
which are otherwise obtained microscopically  
amorphous and inhomogeneous. (Author)  
(Chemistry--Physical, TT, v.10, no. 11)

63-18866

I. Hayek, E. M.  
II. Hohenlohe-Profanter, B. M.  
III. Beetz, E.

Office of Technical Services

Mass Spectrometric Investigation of the Reactions  
and Properties of Free Radicals and Atoms, by H. D.  
Beckey, 33 pp.

GERMAN, par, Angew Chem, Vol LXX, 1958, pp 327-339.

SLA 59-10235

Sci - Nuc Phys  
Sep 59  
Vol 2, No 1

97773

Newer Methods of Preparative Organic  
Chemistry, II. 11. Reactions of Sulfur  
with Aromaticity as Well as Aliphatic  
Compounds, by R. Wagner, E. Kahl,  
Werner Schaefer, 50p.  
CHEMAB, per. Ammonia Chemie,  
Vol 70, No 12, 1958, pp 351-367.  
TC-415

336, 199

Sci  
Aug 67

On Ferromagnetic Iron Oxide by R.  
Rehl.  
GERMAN, par, Angewandte Chemie, Vol 70,  
1958, pp 367-71.  
SEA TT-66-10910

331, 645

Sci  
Jul 67



60-17572

Korte, F. and Weitkamp, H.  
MEASUREMENT OF ABSORPTION AND FLUORESCENCE SPECTRA ON PAPER CHROMATOGRAMS [AND SUPPLEMENT]. (Messung von Absorptions- und Fluoreszenzspektren an Papierchromatogrammen) tr. by K. Hichschwender. 10 May 60, 9p. (5 figs. omitted) 3 refs. No. 5-4-60.  
Order from OTS or SLA \$1.10

60-17572

Partial trans. (p. 435-437) of Angewandte Chemie (West Germany) 1958, v. 70, no. 14, p. 434-437.

DESCRIPTORS: Absorption, Measurement, \*Fluorescence, \*Chromatographic analysis, \*Paper chromatography.

(Chemistry--Analytical, TT, v. 6, no. 12)

- I. Korte, F.
- II. Weitkamp, H.
- III. NII-5-4-60
- IV. National Institutes of Health, Bethesda, Md.

056751

9-11-61

Office of Technical Services

The Carcinostatic Effect of Tetraethyleneiminoben-  
zoquinone, by H. Holzer, H. Kroger, P. Scriba, et al,  
2 pp.

GERMAN, per, Angewandte Chemie, Vol LXX, 1958, pp 439.

NIH 2-41

Sci - Med

Mar 59

The Course of the Low Pressure Polymerization of  
 $\alpha$ -Olefins. Part 1. Complex Polymerization, by  
F. Patat, H. Sinn, 11 pp.

GERMAN, per, Angew Chem, Vol LXX, No 16, 1958,  
pp 496-500.

ATS 149-GJ  
SLA 59-15914

Sci  
Nov 59

100,410



Ottel, H.  
CANCEROGENIC SUBSTANCES, OCCUPATIONAL  
CANCER, AND CANCER MORTALITY. [1962] 30p  
93refs  
Order from SLA \$2.60      TT-64-14550

Trans. of Angew[andte] Chem[ie] (West Germany) 1958,  
v. 70, no. 17/18, p. 532-539.  
Other translations are available from SLA m\$2.70,  
ph\$4.80 as TT-59-10720 [1958] 24p and \$1.60 as  
TT-61-20649 [1961] 17p and from K-H \$57.50 as K-H-  
9298-a [1962] 30p.

(Biological Sciences--Pathology, TT, v. 11, no. 11)

TT-64-14550

I. Ottel, H.

Office of Technical Services

ROUTES of Hydrogen in the Living Organisation, by  
T. Bucher, H. Klingenberg, 52 pp.

GERMAN, per, Angew Chem, Vol LXX, 1958, pp 552-  
570.

WH 5-2

Sci - Med

Jun 59

88,239

Sundermeyer, W. and Glemser, O.  
NEW METHOD FOR THE PREPARATION OF SILICON  
AND BORON HYDRIDES. [1963] 11p  
Order from K-H \$11.00

K-H 8529 a

Trans. of Angewandte Chemie (West Germany) 1958  
[v. 70] 21 Oct, p. 625-627.

DESCRIPTORS: \*Silicon compounds, \*Hydrides,  
\*Borohydrides, Preparation, Synthesis (Chemistry).

(Chemistry--Inorganic, TT, v. 10, no. 10)

63-22498

- I. Sundermeyer, W.
- II. Glemser, O.
- III. K-H-8529-a
- IV. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

Faribault Pyrophosphate and 5-Methyl-3-  
Methyl-1-Pyrophosphate, the Biological  
Functions of Squalene III. The Biosynthesis  
of the Terpenes, by F. Lynen, H. Zenger,  
U. Henning, I. Kessel, 18 pp.

GERMAN, par, Angew Chem, Vol LXX, 1958, pp  
738-742.

NIH 2-8

ATS-6111393

AT3/1036-GJ 802, 794

Sol - Med  
Mar 59

Thermal Decomposition of Phosphorus  
Nitrilochloride Polymers, by P. Patat, P. Darst,

GERMAN, per, Angewandte Chemie, Vol LXXI, No 3,  
pp 105-110. 1959

C.S.I.R.O.

Sci

May 60

116,100

Progress in the Field of High Polymers in the USA, by  
S. M. Atlas, H. Mark, 20 pp.

GERMAN, per, Angew Chem, Vol LXXI, No 3, 1959,  
pp 110-119.

SLA 59-15873

Sci  
Dec 59  
Vol 2, No 5

104,252

Intercalation Compounds of Alkali and Alkaline  
Earth Metals in Molybdenum Disulfide and Tungsten  
Disulfide, by W. Radorff, H. H. Sick, 2 p.

GERMAN, per, Angew Chem, 1959, Vol LXXI, No 3,  
p 127,

SLA 59-17936

Sci  
Mar 60  
Vol 2, No 11

109,559

63-14204

Schiffer, Harald.

METHOD OF SEPARATING THE ELEMENTS NIOBIUM AND TANTALUM, AND FOUNDATIONS THEREOF. Rept. 19 on Niobium and Tantalum. [1963] 27p. (figs. tables omitted) 134 refs.  
Order from SLA \$2.60

63-14204

Trans. of Angewandte Chemie (West Germany) 1959, v.71, no. 4, p. 153-160.

DESCRIPTORS: \*Niobium, \*Tantalum, Separation, Oxidation, Hydrolysis, \*Distillation, Chromatographic analysis, Chlorides, Reduction (Chemistry), Acids, Crystallization, Oxalates.

The methods of niobium-tantalum separation are arranged and discussed from a unified point of view. By far the majority and the best of the known methods are based on the difference in stability of lower oxidation steps or middle hydrolysis steps. (Author) (Engineering--Chemical, TT, v. 10, no. 5)

I. Schiffer, H.

Office of Technical Services



Catalytic Reactions of Olefins With Platinum-Metal Compounds. The Consortium Process For the Preparation of Acetaldehyde, by J. Smidt, W. Hafner and others, 18 pp.

GERMAN, Per, Angew Chem, 1959, Vol LXXI, pp 176-182.

ATS-746-GJ  
SLA 59-15333

SLA 61-18807

Sci  
Nov 59  
Vol 2, No 3

100,954

The Stereospecific Polymerization of Vinyl Ethers,  
by G. Natta, G. Dall'Asta, et al, 14 pp.

GERMAN, per, Angewandte Chemie, Vol LXXI, No 6,  
1959, pp 205-210.

SLA 59-15761  
OTS 63-14208

Sci  
Dec 59  
Vol 2, No 4

102, 714

Köbel, H. and Kühn, P.  
STRUCTURE AND PROPERTIES OF SURFACE-  
ACTIVE AGENTS. I. MEASUREMENTS ON p-n-  
ALKYLBENZENE SULFONATES. [1961] 19p. 41 refs.  
Order from SLA \$1.60 61-16186

Trans. of Angew[andte] Chem[ie] (West Germany) 1959.  
v. 71, no. 6, p. 211-215.

DESCRIPTORS: \*Sulfonates, \*Detergents, \*Wetting  
agents, \*Phenyl radicals, Alkyl radicals, Textiles,  
Processing.

The textile-chemical properties (surface tension, in-  
terfacial tension, wetting capacity, emulsifying power,  
foaming capacity, foam stability, soil suspending power,  
cleaning power) of p-n-alkylbenzene sulfonates were in-  
vestigated as a function of their alkyl chain lengths.  
Surface activity in the textile chemical sense begins at  
an alkyl chain length of 7-8 C-atoms. The lowering of  
the surface and interfacial tensions, as well as the  
(Chemistry--Organic, TT, v. 6, no. 3) (over)

61-16186

I. Köbel, H.  
II. Kühn, P.  
III. Title: Measurements...

SLA 62-20452

175258

Office of Technical Services



Flame Photometry. I, by G. Pietzka, H. Chun,  
18 pp.

GERMAN, per, Angewandte Chemie, Vol LXXI, No 8,  
1959, pp 276-283. 9088297

A.C.S.I.L. No 1333

Sci - Phys

Jul 62

203, 138

A Reaction of Palladium Chloride With Allyl Alcohol,  
by Dr. J. Smidt, Dr. W. Hafner, 2 pp.

GERMAN, per, Angew Chem, Vol LXXI, 1959, pp 284, 285.

CIA/FDD XX-741

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem

Jan 60

USIB INTERNAL USE ONLY

New Methods of Preparative Organic Chemistry II,  
by L. Horner, E. Winkelmann.

GERMAN, per, Angewandte Chemie, Vol LXXI, No 11,  
7 Jun 1959, pp 349-365.

MOB A.1859  
R.1858

Sci

Aug 61

Lint No 41

163,540

The Chemistry of the Di-Alpha-Halogen Ethers, by  
H. Bagans, 19 pp. NOFORN

GERMAN, per, Angew Chem, Vol LXXI, No 11, 1959,  
pp 366-371.

CIA/FDD-XX-700  
NOFORN

Sci

Nov 59

USIB Internal Use Only

10,097



Quantitative Evaluation of Paper Chromatograms  
by Means of Reflection Measurements, by G. Kortum,  
J. Vogel, 18 pp.

GERMAN, per, Angew Chem, Vol LXXI, 1959, pp 451-  
455.

CIA/FDD XX-742  
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chemistry  
Jan 60

USIB INTERNAL USE ONLY

105,844

Obtaining Absorption Spectra in Reflection of  
Substances Isolated by Paper Chromatography, by  
F. Korte, H. Weitkamp, 4 pp.

GERMAN, per, Angew Chem, Vol LXXI, 1959, pp 455,  
456.

CIA/FDI XX-743

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chemistry  
Jan 60

USIB INTERNAL USE ONLY

105,846

The Biochemical Function of Biotin, by F. Lynen,  
J. Knappe, E. Lorch, G. Jutting, E. Ringelmann, 27 pp.

GERMAN, per, Angewandte Chemie, Vol LXXI,  
No 15/16, 21 Aug 1959, pp 481-485.

NIH 1-1-60

Sci - *Q*

Jan 60

107,521

New Directions in Polarography, by  
M. Von Stackelberg, H. Schmidt, 4 pp.

GERMAN, per, Angewandte Chemie, Vol LXXI,  
No 15/16, 1959, pp 501-512.

CSIRO

Sci - Chem  
Nov 61

174,390

Interrelation Compounds with Alkali and  
Earth Alkali Metals, by W. Hudorff.

GERMAN, per, Angewandte Chemie,  
Vol LXXI, No 15/16, 1959, pp 487-491.

CSIRO 4770

Sci - Min/Net  
Jul 62

204,872

<p>Cremer, Erika THE TESTING OF ADSORBENTS AND CATALYSTS WITH THE AID OF GAS CHROMATOGRAPHY (Prüfung von Adsorbentien und Katalysatoren mit Hilfe der Gas-Chromatographie). [1961] 9p. 17 refs. Order from SLA \$1.10 61-10855</p> <p>Trans. of Angew[andte] Chem[ie] (West Germany) 1959. v. 71 [no. 15/16] p. 512-514.</p> <p>DESCRIPTORS: *Adsorbents, *Catalysts, *Gas chromatography, Surface properties, *Adsorption, Magnesium compounds, Oxides, Carbon.</p> <p>(Chemistry--Physical, TT. v. 6, no. 2)</p>	<p>61-10855</p> <p>I. Cremer, E.</p> <p>109725</p> <p>Office of Technical Services</p>
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Reactions With Carbenes and Imines as Intermediates.  
Photochemical and Thermal Conversion of Organic  
Nitrogen Compounds, by W. Kirmse, 17 pp.

GERMAN, per, Angew Chem, Vol LXXI, <sup>7u-13</sup> 1959, pp 537-  
541.

CIA/FDD XX-754

SLA 60-14071

Sci - Chem  
Feb 60

USIB INTERNAL USE ONLY

108,324

The Mechanism of Autoxydation of Organometallic  
Compounds, by H. Hock, H. Kropf, F. Ernst, 13 pp.

GERMAN, per, Angew Chem, Vol LXXII, 1959, pp 541-  
545.

CIA/FEB XX-801  
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem

Apr 60

USIB INTERNAL USE ONLY

K-H 123856

110,923



Chemical Supervision of the Dissemination of  
Radioactive Substances, by G. Herrmann, 49 pp.

GERMAN, per, Angew Chem, Vol LXXI, 1959,  
pp 561-571.

AEC NP Tr-430

Sci - Chem  
Aug 60

124,006

Use of Saponifiable Emulsifiers in the Plastics  
Field, by G. Messwarb, E. Paschke, et al.

GERMAN, per, Angewandte Chemie, Vol LXXI, No 19,  
1959, pp 604-608.

CSIRO

Sci - Chem

Jun 61

156,935

Determination of the Average Radical Concentration  
Per Latex Particle in Emulsion Polymerization, by  
H. Gerrens,

GERMAN, per, Angew Chem, Vol LXII, No 19, 1959,  
pp 608-612.

ATS-43436W

ATS 339-GJ

Sci - Chem

123,325

Aug 60

Cross-Linking of Polyethylene With Ultraviolet  
Light, by H. Wilski,

GERMAN  
~~RESEARCH~~

~~Research~~, per, Angew Chem, Vol LXXI, No 19, 1959.  
pp 612-619.

HTS-770376

ATS 336-GJ

Sci - Chem

123,322

Aug 60

Beermann, C. and Bestian, H.  
METAL-ORGANIC TITANIUM COMPOUNDS AS  
POLYMERIZATION CATALYSTS. Rept. from the Ex-  
panded Macromolecular Colloquium, Freiburg U.,  
6 Mar 59. 14 Apr 60 [19]p. 18 refs.  
Order from SLA \$1.60

61-16711

Trans. of Angew[andte] Chem[ie] (West Germany) 1959,  
v. 71 [no. 19] p. 618-623.  
Another translation is available from ATS \$14.80 as  
ATS-96M4SG [1960] 12p.

DESCRIPTORS: \*Titanium compounds, \*Polymerization  
\*Catalysts, \*Metalorganic compounds, Chlorides,  
Alkyl radicals, Aluminum compounds, Ethylenes,  
Halides.

From mixtures of titanium tetrachloride and alkyl  
aluminum compounds, organo-titanium halides  $RTiCl_3$   
and  $R_2TiCl_2$  can be isolated. The pure, aluminum-free  
compounds in presence of their decomposition products  
(Chemistry--Organic, TT, v. 6, no. 5) (over)

61-16711

I. Beermann, C.  
II. Bestian, H.  
III. Title: Expanded...

180488

ATS-702-GJ

Office of Technical Services

2,7'- Dimethyl-Allyl-Pyrophosphate and  
Geranyl Pyrophosphate, Biological Precursors  
of Squalene, by P. Lynen, B. W. Agranoff, H.  
Eggerer, U. Henning, E. M. Moslein, 29 pp.

GERMAN, per, Angewandte Chemie, Vol LXXI, No 21,  
7 Nov 1959, pp 657-662.

NIR 3-5-60

Sci - Chem

May 60

117,300

TT-65-12143

Field 11F

Kirschfeld, L.  
THE COMBUSTIBILITY OF METALS IN OXYGEN. I. THE  
SPEED OF COMBUSTION OF IRON WIRES IN OXYGEN  
AT REST. 13p, (figs omitted) 8refs.  
Order from SLA: \$1.60 as TT-65-12143

Trans. of Angewandte Chemie (West Germany) v71 n21  
p663-7 1959.

I. Kirschfeld, L.  
II. Title: Speed ...

MR 626

Biosynthesis of an Enzyme Information,  
Induction, Repression, by Jacques Monod, 14 pp.

GERMAN, per, Angewandte Chemie, Vol LXXI,  
No 22, 1959, pp 685-691.

NIH 3-54-62

48/22/84/53

199,708

Sci - Med

Jun 62



Kölbel, H. and Hürig, K.  
CONSTITUTION AND PROPERTIES OF SURFACTANTS  
II. SORPTION OF ANIONIC SURFACTANTS ON  
TEXTILE FIBERS. [27 Jun 63] [19p] 15refs  
Order from SLA \$1.60

TT-64-10933

Trans. of Angewandte Chemie (West Germany) 1959,  
v. 71, p. 691-697.

(See also TT-62-20452)

(Materials--Textiles, TT, v. 11, no. 12)

TT-64-10933

I. Kölbel, H.  
II. Hürig, K.  
III. Title: Sorption...

Office of Technical Services

Mechanism of the Clemmensen Reduction, by  
D. Staschewski.

GERMAN, per, Angewandte Chemie, Vol 71, 1959, pp 726-  
736.

NTC-71-11308-07C

Nov 71

TT-65-12260

Field 7C

Theilacker, W.; Wegner, E.  
NEW METHODS OF PREPARATIVE ORGANIC CHEMISTRY  
III, 1. SYNTHESSES WITH CHLORAMINE IN ORGANIC  
CHEMISTRY. 15p, 50refs.  
Order from SLA: \$1.60 as TT-65-12260

Trans. of Angewandte Chemie (West Germany)  
v72 n4 p127-31 1960.

I. Theilacker, W.  
II. Wegner, E.  
III. Title: Syntheses ...

MR 628

Oxygen-Free Gases, by J. Sagschen.

GERMAN, per, Angeordnete Chemie,  
Vol. LXXII, 1960, pp 132-135.

CEIRO

Sci - Chem  
Oct 61

171,302

TT-65-12259

Field 7C

Kahr, K.  
CYCLOHEXAMONE OXIME BY CATALYTIC HYDROGEN  
PEROXIDE OXIDATION OF CYCLOHEXYLAMINE. 7p,  
8 refs.

Order from SLA: \$1.10 as TT-65-12259

Trans. of Angewandte Chemie (West Germany)  
v72 n4 p135-7 1960.

I. Kahr, K.

*CIA/FDD XX-896*  
*Not Releasable to Foreign*  
*National*

MR 628

Synthesis of Alkanediols From Noncyclic  
Through Boron Heterocycles, by R. Koster,  
G. Rotermund, 3 pp.

GERMAN, per, Angewandte Chemie, Vol LXXII,  
No 4, 1960, pp 138-139.

SLA 60-16904

Sci  
26 May 62  
Vol IV, No 8

198,241

Wacker, A. and Träger, L.  
SIMPLE TITRATION OF ORGANIC COMPOUNDS  
(Einfache Titrierung Organischer Verbindungen).  
[23 May 63] [5]p. 6 refs.  
Order from SLA \$1.10

63-18274

Trans. of Angewandte Chemie (West Germany) 1960,  
v. 72, no. 5, p. 168-169.

DESCRIPTORS: \*Radiation chemistry, \*Labeled sub-  
stances, Organic compounds, \*Tritium, \*Uranium,  
Absorption, Glass, \*Laboratory equipment, Design,  
\*Volumetric analysis.

Tritium as well as uranium is absorbed and, if  
necessary, also desorbed safely in a glass apparatus  
and used according to Witzbach for tritium labeling.  
(Author)

(Chemistry--Analytical, TT, v. 10, no. 11)

63-18274

I. Wacker, A.  
II. Träger, L.

Office of Technical Services

Properties and Bonding of Boron Hydride  
Derivatives, by A. B. Burg, 23 pp.

GERMAN, per, Angew Chem, Vol LXXII, No 6, 1960,  
pp 183-193.

ATS-459443G  
ATS/3466J

195, 979

Sci

Vol 4, No 10  
May 62



Ochoa, Severo.  
THE ENZYMATIC SYNTHESIS OF RIBONUCLEIC  
ACID (RNA). [1962] [16]p. 38 refs.  
Order from SLA \$1.60

62-16901

Trans. of Angewandte Chemie (West Germany) 1960,  
v. 72, p. 225-231.

DESCRIPTORS: \*Enzymes, \*Synthesis, \*Nucleic  
acids, Genetics, Viruses, Nucleoxides,  
Nucleoproteins.

(Biological Sciences--Biochemistry, TT, v. 8, no. 9)

62-16901

I. Ochoa, S.

Office of Technical Services

newer Methods of Preparative Organic Chemistry/  
III. 2. Preparation of Esters, Amines and  
Anhydrides of Phosphoric Acid, by F. Cramer, 75 pp

GERMAN, per, Angew Chemie, Vol LXXII, 1960,  
pp 236-249. ~~907732~~

AEC Tr-4565

Sci - Chem  
Jun 61

157,734

Atlas, S. M. and Mark, H. P.  
HIGH TEMPERATURE POLYMERS. [1961] [26]p.  
29 refs.  
Order from SLA \$2.60

62-10111

Trans. of Angewandte Chemie (West Germany) 1960,  
v. 72, no. 7/8, p. 249-[258].

DESCRIPTORS: \*Polymers, \*Heat resistant polymers,  
\*High temperature research, Chemical reactions,  
Resins, Distilling plants, Decomposition, Stability,  
Organic materials, Production.

(Chemistry--Organic, TT, v. 7, no. 8)

62-10111

I. Atlas, S. M.  
II. Mark, H. P.

201310

Office of Technical Services

Ring Closure of 2,2'-Dilithiobiphenyl by  
Triaryltin and Lead Halides,  
GERMAN, per, Angewandte Chemie, Vol LXXII,  
1960, p 322.  
\*AEC

Jan 66  
Sci-

Hydrogen Fluoride Glass, by J. Schroeder  
GERMAN, per, Angewandte Chemie, Vol 72, 1964,  
pp 344-345  
NTC 71-15252-07B

mar 72

Electron Transfer by Light Absorption and Emission  
in Electron Donor-Acceptor Complexes, by G. Briegleb,  
J. Czokalla, 53 pp.

GERMAN, per, Angew Chem, Vol LXXII, No 12, 1960,  
pp 401-413. 9077350

ABC UCRL-Trans 654

Sci - Chem  
Jun 61

ATC/941-GJ  
157,730

Rapid ~~XX~~ Polarography, by Siegfried Holz. 1949.

GERMAN, per, Angew Chem, Vol LXXII, 1960,  
pp 449-454.

ABC-Tr-5627

Sci - Phys  
6 Jun 63

231,860

Born, H. J. and Riehl, N.  
DETERMINATION OF TRACE AMOUNTS OF  
OXYGEN IN SOLIDS BY ACTIVATION ANALYSIS.  
[1961] Sp.

Order from ATS \$12.70

ATS-89N48G

Trans. of Angew[andte] Chem[ie] (West Germany)  
1960, v. 72, no. 16, p. 559-562.

(Chemistry--Analytical, TT, v. 5, no. 10)

61-12994

1. Oxygen--Determination
2. Radioactivation analysis--  
Applications

I. Born, H. J.

II. Riehl, N.

III. ATS-89N48G

IV. Associated Technical Serv-  
ices, Inc., East Orange,  
N. J.

158919

Office of Technical Services



(DC-4799).

Preparative and Spectroscopic Investigations of the  
Oxides of the Elements of the 4th, 5th and 6th Groups  
of the Periodic Table, by A. Simon, 2 pp.

GERMAN, per, Angewandte Chemie, No 16, 21 Aug 1960,  
p 565. *partial*

JPRS 6484  
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Sci - Chemistry

7 Nov 60

Dehydrobenzene From o-Iodophenyl Mercury  
Iodide, by G. Wittig, H. F. Ebel,

GERMAN, per, Angewandte Chemie, Vol LXXII,  
21 Aug 1960, pp 564.

TTIS-H.S.1

Sci  
Vol 4, No 10

May 62

195, 975

<p>Wilke, G. NEW DATA ON CYCLIC BUTADIENE OLIGOMERS. [1961] Sp. 3 refs. Order from SLA m\$1.80, ph\$1.80 Trans. of Amer[ican] Chem[ical] Soc[ety] (West Germany) 1960, v. 72, no. 16, p. 581-582.</p> <p>151859</p> <p>(Chemistry--Organic, TT, v. 5, no. 9)</p>	<p>61-10789</p> <ol style="list-style-type: none"><li>1. Cyclododecatriene-- Synthesis</li><li>2. Butadienes--Chemical reactions</li><li>3. Nickel compounds (Organic)-- Chemical reactions</li><li>4. Title: Oligomers 1. Wilke, G.</li></ol> <p>Office of Technical Services</p>
--	--

( 10-4777 ).

Synthesis of N-substituted Tertiary Amines That Act on  
the Central Nervous System, by J. Porszasz, ...  
B. Matkovics, S. Foldeak, 1 p.

GERMAN, per, Angewandte Chemie, No 17, 7 Sep 1960,  
p. 635.

JPRS 6484  
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Sci - Chemistry

7 Nov 60

( 52-1777 )  
Investigations on Fluorozirconates, by L. Kolditz,  
A. Feltz, 1 p.

GERMAN, per, Angewandte Chemie, No 17, 7 Sep 1960,  
pp 634-635. *for trial*

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\*JPRS 6484  
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Sci - Chemistry

7 Nov 60

Hauffe, K.  
ELECTROPHOTOGRAPHY. [1961] 25p. (13 figs.  
omitted) 27 refs.  
Order from SLA \$2.60

62-10418

Trans. of Angew[andte] Chem[ie] (West Germany)  
1960, v. 72, no. 19/20, p. 730-738.

DESCRIPTORS: \*Electrophotography, Zinc com-  
pounds, Oxides, Photoconductivity, Photoelectric  
effect, Electrostatics.

(Materials--Photographic, TT, v. 7, no. 9)

62-10418

I. Hauffe, K.

Office of Technical Services

Riedel, O. and Kienitz, H.  
THE FORMATION OF TEREPHTHALATE BY RE-  
ARRANGEMENT OF CARBOXYL GROUPS IN A  
 $^{14}\text{CO}_2$ -ATMOSPHERE. [1961] 8p. 3 refs.  
Order from SLA mi\$1.80, ps\$1.80

CI-10788

Trans. of Angew[andte] Chemie (West Germany)  
1960, v. 72 [no. 19/20] p. 738-740.

151858

(Chemistry--Organic, TT, v. 3, no. 9)

CI-10788

1. Phthalates--Chemical reactions
2. Carboxyl groups--Chemical reactions
1. Riedel, O.
- II. Kienitz, H.

K-H-10546

Office of Technical Services

( DE-4779 ).

On the Reactivity of Thiophosphoryl Groups in  
Thionbphosphates, by G. Hilgetag, H. Teichmann, J.

GERMAN, per, Angewandte Chemie, No 17, 7 Sep 1960,  
pp 633-634. *partial*

JPRS 6414  
~~COPYRIGHT~~

Sci - Chemistry

7 Nov 60



( DC-4779 ).

Chemical and Spectroscopic Investigations on  
Tetramethyldisilazane Derivatives, by H. Kriegsmann,  
G. Engelhardt, 1 p.

GERMAN, per, Angewandte Chemie, No 16, 21 Aug 1960,  
pp 583-584. *final*

*q*  
\*JPRS 6484  
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Sci - Chemistry

7 Nov 60

( DC-4799 ).

The Thermal Behavior of Methyl-E 605, by Gerhard  
Lehmann, *1 p.*

GERMAN, per, Angewandte Chemie, No 16, 21 Aug 1960,  
pp 566-568. *publ.*

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Sci - Chemistry

7 Nov 60

Aerosil, Manufacture, Properties, and Behavior in  
Organic Liquids, by Ernst Wagner.

GERMAN, per, Angew Chem, Vol LXXII, 1960, pp 744-750.

CIA/FDD XX-1053  
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem

Oct 61

USIB INTERNAL USE ONLY

170,157

Detection of Very Small Quantities of Inorganic  
Gases With an Ionization Detector, by R.  
Lesser, 7 pp.

GERMAN, per, Angewandte Chemie, Vol. LXII,  
No 21, 1960, p 775-779 067009

Pl 775-779  
ABC Tr-5287

Sci - Phys  
Oct 62

212,533

B151 3727

3,3-Dialkyl-Diazacyclopropene-(1), by  
S. R. Paulsen  
GERMAN, per, Angewandte Chemie, Vol 72,  
1960, pp 781-782  
NTC 71-15256-07C

mar 72

Ziegler, K.  
THE THEORY AND PRACTICE OF ORGANOMETAL-  
LIC SYNTHESIS OF HIGHER ALIPHATIC COMPOUNDS  
FROM LOWER OLEFINS. [1961] 14p.  
Order from ATS \$22.80

ATS-21N49G

Trans. of Angew[andte] Chemie] (West Germany)  
1960, v. 72, no. 22, p. 829-835.

SLA 61-20688  
ATS-701-GJ  
K-H 106106

(Chemistry--Organic, TT, v. 5, no. 11)

61-22166

1. Metalorganic compounds--  
Synthesis
2. Ethylenes--Chemical reac-  
tions
  1. Ziegler, K.
  - II. ATS-21N49G
  - III. Associated Technical Serv-  
ices, Inc., East Orange,  
N. J.

Office of Technical Services

Billingsfeld, Heinz, Seefelder, Matthias, and  
Weidinger, Hans.  
AMIDE CHLORIDES AND CARBAMIDE CHLORIDES.  
[1961] [30]p. (1 table omitted) 50 refs.  
Order from SLA \$2.60 62-10408

Trans. of Angew[andte] Chem[ie] (West Germany)  
1960, v. 72, no. 22, p. 836-845.

DESCRIPTORS: \*Amides, \*Ureas, \*Chlorides,  
Synthesis

A summary of the methods of preparation as well as  
application of these compounds is given. The commen-  
tary is concerned with the synthesis of alkyl chlorides,  
amide acetates, acid chlorides, thioamides, amidines,  
pyrimidines, chinazolines, anthrapyrimidines, ni-  
trides,  $\beta$ -ketone acid amides and aliphatic-aromatic  
ketones. A generally applicable method of presenta-  
(Chemistry--Organic, TT, v. 7, no. 8) (over)

62-10408

I. Billingsfeld, H.  
II. Seefelder, M.  
III. Weidinger, H.

201342

Office of Technical Services

61-20687

Fikentscher, Hans, Gerrens, Heinz, and Schuller, Helmut.

EMULSION POLYMERIZATION AND SYNTHETIC LATICES. [1961] 24p. 93 refs.

Order from SLA \$2.60 61-20687

Trans. of Angewandte Chemie (West Germany) 1960, v. 72, no. 22 [p. 856-864].

DESCRIPTORS: \*Colloids, \*Polymerization, Chemical reactions, Particles, Stability, \*Synthetic rubber.

During the emulsion polymerization with emulsifiers the reaction starts in the aqueous phase, in the beginning it occurs preponderantly in the emulsifier micelles, later on in the latex particles formed. Size and size distribution of the latex particles can be influenced by reaction conditions and the polymerization technique. The stability of the synthetic latices (Chemistry--Physical, TT, v. 7, no. 5) (over)

1. Title: Latex
2. Title: Emulsion polymerization
1. Fikentscher, H.
- II. Gerrens, H.
- III. Schuller, H.

Office of Technical Services



On Silica Gel Layer Chromatography of the  
Stereoisomeric Menthols, by H. J. Petrowitz, 3 pp.

GERMAN, per, Angewandte Chemie, Vol LXXII, 1960,  
pp 921. *969 2618*

*g* Redstone Arsenal

Sci - Chem

Jan 64

US GOVERNMENT Use Only

62-10053

Bayer, Otto and Müller, Erwin.  
VULCOLANES: THE PRINCIPLE OF URETHANE  
ELASTOMER PREPARATION. [1961] [14]p. 18 refs.  
Order from SLA \$1.60 62-10053

Trans. of Angewandte Chemie (West Germany) 1960,  
v. 72, no. 24, p. 934-939.  
Other translations are available from RIS \$30.00 as  
RIS D-669 [1961] 17p. and from SLA \$1.60 as  
61-20991 [1961] [18]p.

DESCRIPTORS: \*Elastomers, \*Urethanes, Synthesis,  
Glycols, Cyanates, Polymers, \*Plastics

For abstract see 61-20991 above.

(Materials--Plastics, TT, v. 7, no. 4)

- I. Title: Vulkollan
- I. Bayer, O.
- II. Müller, E.
- III. Title: Principle...

RIS D-669  
SLA 62-20026

Office of Technical Services

63-10581

Schubert, Freidrich and Lang, Konrad.  
NEW WAYS OF PREPARING SODIUM BOROHYDRIDE,  
AND ITS UTILIZATION. 23 Feb 61, 23p. 75 refs.  
Order from SLA \$2.60 63-10581

I. Schubert, F.  
II. Lang, K.

Trans. of Angewandte Chemie (West Germany) 1960,  
v. 72, no. 24, p. 994-1000.

DESCRIPTORS: \*Sodium compounds, \*Borohydrides,  
Synthesis, Isotope separation, Sand, Physical proper-  
ties, Chemical properties, Reduction (Chemistry),  
Amines, Hydrogenation, Alkyl radicals,  
Bibliographies.

(Chemistry--Inorganic, TT, v. 10, no. 1)

Office of Technical Services

The Bombardier Beetles and their Explosion  
Chemistry. Part V. Report Concerning Insect  
Repellant Materials, by H. Schildknecht and  
K. Holoubek.

GERMAN, per, Angewandte Chemie, Vol 73, No 1,  
1961, pp 1-7.

NTC 71-14199-06F

Feb 72

Chemical Transport Reactions and Their  
Uses VII. Communications Concerning  
Chemical Transport Reactions, by Harold  
Schaefer, 16 pp.

CHESMAN, per, Angew Chemie, Vol LXXIII,  
1961, pp 11-14.

AEC Tr-9258

Sci - Chem  
Oct 62

212,646

Schmitz, Ernst.

SYNTHESES WITH N-HALOAMINES. 16 Jul 63, 12p  
25refs

Order from SLA \$1.60

TT-63-20726

Trans. of Angewandte Chemie (West Germany) 1961,  
v. 73, no. 1, p. 23-25. (Abstract available)

DESCRIPTORS: \*Amines, \*Halogen compounds, Amides,  
Pyrimidines, Hydrazines, Synthesis (Chemistry).

Aldehydes and Schiff bases derived from aldehydes form  
alkylated acid amides when reacted with N-chloroalkyl  
amines in an aqueous alkaline solution. In organic sol-  
vents, though, diaziridines ("isohydrazones") are the  
product obtained from Schiff bases and chloroamine or  
N-chloroalkyl amines. Hydrolysis of these three-ring  
heterocycles leads to mono - or dialkyl hydrazines. The  
appropriate N-dibromo amines undergo twofold intra-  
molecular bromination upon being irradiated in con-  
(Chemistry--Organic, TT, v. 11, no. 4) (over)

TT-63-20726

1. Title: N-Haloamines  
I. Schmitz, E.

Office of Technical Services

Gaseous Ruthenium Oxides at High Temperatures, by  
H. Schafer, W. Gerhardt, A. Tebben, 2 pp.

GERMAN, per, Angewandte Chemie, Vol LXXIII, No 1,  
1961, p 27. 9095565

AEC NP Tr-811

Mar 62

Synthesis and Reactions of Organo-Silicon, Germanium,  
and Tin Compounds, by A. D. Petrov.

GERMAN, per, Angew Chem, Vol LXXIII, 1961, pp 59-63.

CIA/FDD XX-1054

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Sci - Chem, Min/Met

Oct 61

170,158

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